



SEFEL

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

CLIENT: CPI
PROJECT: PERMIT BR 109
TVF STACK
SEA LEVEL DATUM
SP 1 TO SP 190
LINE BR-109-06 NE

RECORDED BY: GEOPHYSICAL OFFSHORE EXPLORATION
VESSEL: EXPLORER
RECORDING DATE: APRIL 1978
INSTRUMENTS: LRS-008 CDBA-1 SEG-C FERRIS
RECORD LENGTH: 6.0 SECONDS
SAMPLE INTERVAL: 2 MS.
RECORDING FILTER: 6/124 HZ
SOURCE: 16 GUN GROUPS
TOTAL GUN CAPACITY: 2450 CUBIC FEET
OPERATING PRESSURE: 2000 PSI
GUN DEPTH: 7.4 METERS
CABLE: 40 CDBUPS - 52 HYDRAPHONES-CDB-P
CABLE DEPTH: 12.2 METERS
CENTRE OF GUNS TO CENTRE OF NEAR GROUP: 200 FT
GROUP INTERVAL: 50 METERS
SHOT INTERVAL: 25 METERS
RECORDING FIELD: 1000 PERCENT
PRIMARY NAVIGATION: TRISPANDEK
SECONDARY NAVIGATION: SAT NAV

PROCESSING SEQUENCE:

1. MULTIPLEX AND BINARY GAIN RECOVERY
INCLUDES RESAMPLING TO 4 MSEC
2. SYNTHETIC GAIN CURVE APPLICATION
SLOPE = 47 + 30 LOG(1) + 20
3. 3DP TRACE GATHER TO 4000 PERCENT
INCLUDES NEAR TRACE DISPLAY
INCLUDES EDITING
4. FILTER
5-40 HZ BANDPASS - 320 MSEC S.L.L. W/ 200 MSEC PREDICTION TIME
5. DECONVOLUTION - LL, LEAST SQUARES
200 MSEC OPERATOR LENGTH
24 MSEC PREDICTION TIME
WINDOW = 200 MS TO 3000 MS
SLOPE OF 1800 MS ACROSS 40 TRACES
6. VELOCITY ANALYSES
CONSTANT VELOCITY STACKS
7. NMO REMOVAL
8. FIRST BREAK PUTE
0-350, 400-370, 500-320
2800-2570
9. STACK TO 1000 PERCENT
10. BLACK STATIC DATUM CORRECTION - 4ms
11. TIME VARIANT FILTER
7/200 HZ BANDPASS W/ TO 15
8/20 HZ BANDPASS 3.0 TO 5.0
FOLLOWS UNIFORMITY
12. TIME VARIANT EQUALIZATION
VARIED WITH STRUCTURE
13. FILM DISPLAY
5 CM-SEC VERTICAL SCALE
4 CM = 1 KM HORIZONTAL SCALE

QC GEOPHYSICIST: DATE: JUNE 1978